# TRAFFIC CONTROL PLAN for PORTAGE CREEK AREA TIME CRITICAL REMOVAL ACTION

# Kalamazoo County Kalamazoo, Michigan

Prepared for:

USEPA Region 5
Emergency Response Branch
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Chicago, IL 60604
and
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Kalamazoo, MI 49001

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#### 1. INTRODUCTION

Environmental Quality Management, Inc. (EQ) has been tasked with performing a time-critical-removal action (TCRA) to remove polychlorinated biphenyl (PCB) contaminated sediments from targeted locations over a 1.8-mile section of Portage Creek. The Portage Creek Site (Site) is a portion of the Allied Paper/Portage Creek/Kalamazoo River Superfund Site. This Site located in Kalamazoo County, Michigan, is pervasively contaminated with PCBs as a result of historic waste practices associated with several paper mills. The Site was listed on the National Priorities List (NPL) on August 30, 1990.

## 1.1 Purpose

Implementation of the TCRA will require significant use of trucks to facilitate site operations and thus increase truck traffic in the sediment removal action areas. The purpose of this traffic control plan (TCP) is to minimize the impact of site-associated truck traffic on the local traffic patterns to maintain public safety. The focus of this traffic plan will be the movement of contaminated sediment in over-the-road transport trucks to and from the primary staging area at the TCRA support area at the intersection of E. Crosstown Parkway and John Street. The traffic plan will be amended at a later time, when the primary staging area is relocated to a to-bedetermined (TBD) location as work progresses downstream.

Site activities will employ various-sized dump trucks and/or tractor trailers, construction worker vehicles, delivery vehicles, and visitor vehicles. During removal activities, it is anticipated that an average of 20 to 25 (up to a maximum of 35) truck loads of dewatered soil and sediment material will be hauled daily from the project area to the off-site licensed disposal facilities. A combination of off-road trucks and equipment and over-the-road haul vehicles will be used to carry out the various transport-related tasks. The off-road vehicles will travel only within the active construction site, while the over-the-road trucks will be used to haul materials on public roads.

A pre-construction survey of existing road conditions will be performed prior to the start of contaminated sediment removal operations. Survey documentation will be maintained in the site project files located at EQ's command post at the TCRA support area. Dry runs will be performed as necessary on all primary and alternate routes between the project area and the off-site disposal facilities to identify potential problem areas or areas of significant traffic congestion.

Construction traffic will be directed for travel to and from the project area along established truck routes. These routes will provide efficient travel routes for construction vehicles while minimizing the impact on local traffic. Warning signs and traffic controls may be employed (consistent with the 2003 U.S. Department of Transportation - Federal Highway Administration



[USDOT-FHWAj Manual on Uniform Traffic Control Devices and local/state regulations) to alert local traffic to trucks entering and leaving the project area via local roads. Also, local law enforcement agencies and highway departments will be consulted and notified of the construction schedule and designated truck routes. During peak periods, the timing of construction traffic may be adjusted to avoid increased congestion and conflicts with local traffic patterns. There will be no lane closures to create exclusive truck traffic lanes.

The following sections of this TCP provide details on the potential impacts and mitigation approach. The goals of implementing the measures described in this TCP are to prevent injuries to workers, passengers, and pedestrians; prevent damage to motor vehicles and/or other equipment; and prevent damage to third-party property.

## 1.2 Organization of the Plan

This plan is organized to satisfy public safety and aesthetic concerns of the City of Kalamazoo related to the increase in truck traffic from shipping contaminated sediments from the project site and other site-related traffic. Section 1 of the plan presents the purpose and organization of the plan; Section 2 presents the location and description of the site; Section 3 describes on-site/off-site traffic control procedures; Section 4 presents fugitive dust control activities; and Section 5 outlines mitigation procedures to control the tracking of soils off site and onto city roadways.

## 1.3 Cross Referencing of Plans

The Traffic Control Plan supplements two other plans also required under this contract: the Work Plan and the Sediment and Erosion Control Plan. The Sediment and Erosion Control Plan supplements both the Work Plan and the Traffic Control Plan through the management and inspection of erosion and erosion control measures at the site.

#### 2. SITE LOCATION AND DESCRIPTION

#### 2.1 Site Location

The Site is located in the City of Kalamazoo, Michigan, beginning at East Cork Street and flowing northward approximately 3 miles to the confluence of the Kalamazoo River. Activities associated with this removal action are anticipated to occur in segments along a 1.8-mile stretch of Portage Creek. Work activities will move downstream primarily between Reed Avenue to East Walnut Street bridge, South Pitcher Street bridge to the railroad crossing west of Rochester Street, and the bend in Portage Creek east of Rochester Street to the confluence with the Kalamazoo River (Figure 1, Site Location Map).

## 2.2 Site Description

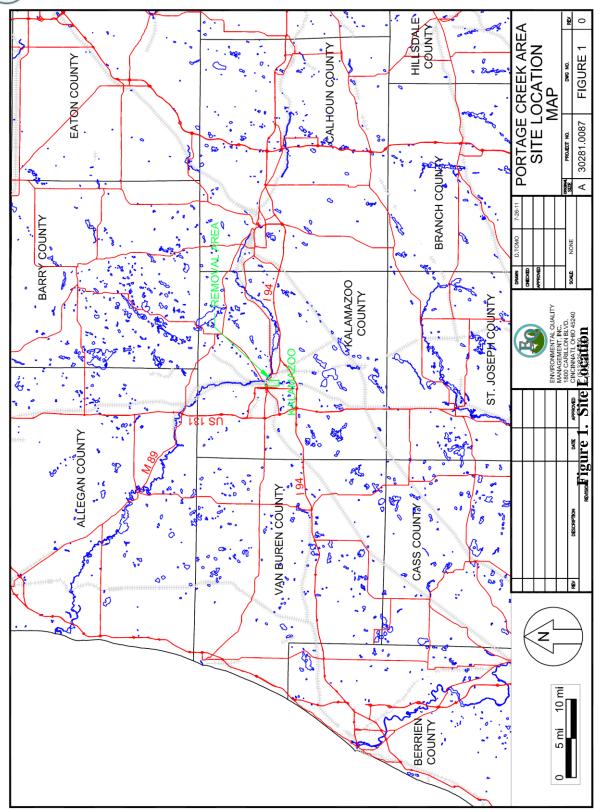
Specific aspects of the design of the Portage Creek Area TCRA related to the development of this TCP are briefly summarized in this section. A comprehensive description of the project is provided in the Work Plan for the Portage Creek Area Time-Critical Removal Action. The section of Portage Creek targeted for action has been divided into 10 distinct removal areas (Figure 2, Sediment Removal Areas). The areas targeted for removal will be referred to as SA1-A, SA1-B, SA1-C, SA3-A, SA5-A, SA5-C, Axtell Creek, SA5-D, SA6, and SA7. It is anticipated that the work will span two to four construction seasons subject to funding allocations and the available working budget. Therefore, as detailed in this overview the phases will be divided based on approximate equal removal volumes for completion of distinct removal areas. The phases may be split over multiple construction seasons if available budget and working conditions permit completion of individual removal areas.

#### Phase 1 Overview

Construction activities can begin when the final design has been completed and approved by USEPA and the necessary property access is obtained. This phase will include the preparation of the TCRA support area for site operations, and pre-removal preparation of SA5, SA6, and SA7. Traffic associated with preparation of the TCRA support area includes but is not limited to:

- Mobilization of heavy equipment to perform clearing and grubbing of the support area and access for removal operations at SA5, SA6, and SA7.
- Mobilization of heavy equipment for construction of site improvements needed for site operations.
- Mobilization of site materials to include sand, gravel, stone, and various geotextile products to construct parking, laydown areas, haul roads, and sediment dewatering/staging pad.







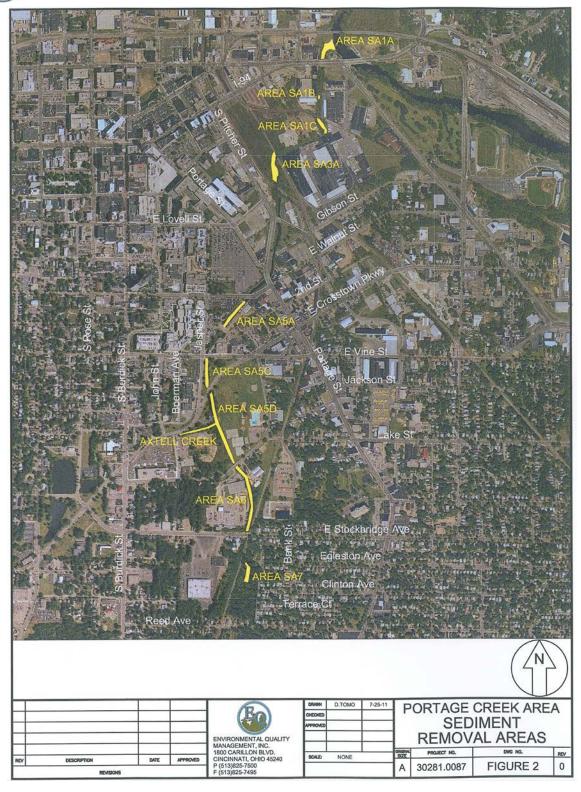


Figure 2. Sediment Removal Areas



- Mobilization and spotting of office trailers and storage containers.
- Mobilization of waste water treatment system components and subsequent construction of the waste water treatment plant.

The support area will be accessed via E. Crosstown Parkway by turning south onto John Street, and then turning east into the support area property. In addition, EQ will prepare access for the SA7 removal operations that will include mobilization of heavy equipment and construction of an access road from the entrance off Reed Avenue. It is estimated that preparation activities in Removal Areas SA5, SA6, and SA7 will begin in late summer 2011 and continue into the spring of 2012. Excavation of SA7 is expected to be completed in Fall 2011, and will result in the removal of an estimated 826 cubic yards (cy) consisting of approximately 131 cy of TSCA sediment waste and 695 cy of Subtitle D sediment waste. EQ expects to ship sediment waste from SA7 directly to the respective landfills.

#### Phase 2 Overview

To avoid the challenges (including safety hazards) associated with winter work in southwest Michigan, excavation work will be shut down over the winter months and resume in the spring of 2012, dependent on water levels within the creek. Phase 2 will include excavation within Removal Areas SA6, SA5-D, and Axtell Creek. Phase 2 is expected to be completed in the second construction season during the spring and summer of 2012. Excavation of SA6, SA5-D, and Axtell Creek will result in a combined removal of an estimated 7,608 cy consisting of approximately 1,558 cy of TSCA sediment waste and 6,050 cy of Subtitle D sediment waste. Sediment removal from SA6 will require the transfer of sediments to the TCRA support area staging pad at the E. Crosstown Parkway and John Street location. SA6 sediments will be transported by over-the-road dump trucks to the TCRA support area staging pad prior to shipping off site for final disposal. Sediment removed from the SA5 areas will be transferred via off-road dump trucks to the primary staging pad on site-constructed haul roads in and around Upjohn Park. Final disposal shipments will be made from the TCRA support area staging pad to respective disposal facilities over truck routes established in this TCP.

#### Phase 3 Overview

Phase 3 will include excavation within Removal Areas SA5-C and SA5-A. Phase 3 is expected to be completed in the third construction season during the spring and summer of 2013. Work may begin in the second construction season, however, if the available budget and acceptable working season is suitable for completion of one or both of these designated sections. Excavation of SA5-C and SA5-A will result in a combined removal of an estimated 4,126 cy consisting of approximately 2,394 cy of TSCA sediment waste and 1,727 cy of Subtitle D sediment waste. Sediment removed from these SA5 areas will be transferred via off-road dump trucks to the primary staging pad on site-constructed haul roads in and around Upjohn Park. Final disposal shipments will be made from the TCRA support area staging pad to respective disposal facilities over truck routes established in this TCP.



## **Phase 4 Overview**

Phase 4 will include excavation within Removal Areas SA3-A, SA1-C, SA1-B, and SA1-A. Phase 4 is expected to be completed in the fourth construction season during the spring and summer of 2014. Work may begin in the third construction season, however, if the available budget and acceptable working season is suitable for total completion of one or multiple designated sections. Excavation of SA3-A, SA1-C, SA1-B, and SA1-A will result in a combined removal of an estimated 4,149 cy consisting of approximately 590 cy of TSCA sediment waste and 3,559 cy of Subtitle D sediment waste. Sediment waste to be removed from these areas will be transferred to a to-be-determined staging pad before shipment to the final disposal facility. An amendment to this TCP will be prepared prior to completion of these sediment removal areas to provide associated transportation routes.

#### 3. TRAFFIC CONTROL

EQ will differentiate between on-site and off-site traffic control by where the traffic event takes place. Traffic is considered on site if traveling on temporary constructed roadways, staging areas, or parking lots. Project-related traffic on public roadways will be subject to off-site traffic control policies and procedures. EQ expects on-site traffic to consist of but not be limited to:

- EPA, MDEQ, and Design Engineering Firm inspection vehicles.
- Visitors' vehicles.
- EQ and subcontractor management and service vehicles.
- Delivery vehicles that will bring sand, stone, geotextiles, heavy equipment, solidification materials, and other site supplies.
- Security patrols.

EQ expects off-site traffic to consist of but not be limited to:

- EPA, MDEQ, and Design Engineering Firm inspection vehicles and visitors traveling between staging areas to inspect work.
- EQ and subcontractor management and service vehicles traveling between staging areas to inspect, support, and/or perform work.
- Off-site disposal vehicles taking sediment waste from the staging areas to the landfill.
- Delivery vehicles bringing items to support site operations that will consist of sand, stone, geotextiles, heavy equipment, solidification materials, and other site supplies.
- Security patrols.

Many of the vehicles used on site will also travel to/from the site on public roadways. On-site traffic will not affect the community as greatly as off-site traffic; however, control practices and procedures will be discussed for each to benefit overall site safety.

#### 3.1 On-site Traffic Controls

On-site traffic control measures include the following:

- When operating vehicles and heavy equipment, safety devices such as seat belts will be worn.
- Signage will be used to notify motorists on public roads when approaching staging area entry drives. The signs will be posted at 250 feet from each drive entrance. The signs will state "Trucks entering Roadway."



- Flagmen wearing safety reflective vests will assist delivery drivers when vehicles are being backed on site to deliver heavy equipment or site supplies. Three personnel will be used to perform this operation on as-needed basis. One flagman will be designated to direct the driver to the offloading location. The other two will be posted along the road in opposite directions approximately 50-75 feet from where the truck is being backed off the road. They will direct traffic using 2-sided signs saying "stop" and "slow." This will minimize disruption to traffic flow.
- When constructing temporary haul roads, staging pads, and parking areas, a top cover of
  gravel will be applied to keep from tracking dirt off site onto public roads and to minimize
  dust disturbed by moving traffic.
- Site vehicles will maintain speeds of less than 15 mph when traveling on temporary constructed roadways, staging areas, and in parking lots.
- No one in a vehicle or on foot will approach "within the work radius" of site heavy equipment without establishing visual or verbal communication with the equipment operator.
- Staging Area entry gates are to be in the closed position when no truck traffic activity is ongoing. Staging area gates will be locked during non-working hours.

## 3.2 Off-Site Traffic Control Measures

Off-site traffic control measures include the following:

- All vehicle operators will be instructed to follow posted speed limits, wear safety belts, maintain safe following distance between vehicles, use turn signals, and yield the right of way to pedestrians when traveling public roads around the site work areas.
- Off-site disposal vehicles will have their loads covered and their tires pressure washed before entering the public roadway from each staging area.
- Loads will be secured and inspected when transferring equipment and materials from one work area to another over public roadways.
- No site-related vehicle traffic, with the exception of security patrols and site management, will approach the site ½ hour before commencement of work and will depart within ½ hour of completion of the workday. Normal excavation work hours will be from 7:00 a.m. to 7:30 p.m. Monday through Friday, and 7:00 a.m. to 3:30 p.m. on Saturday. No work is scheduled for Sundays, and would only be completed under special circumstances.

## 3.3 Off-site Land Disposal Facilities

As part of the Portage Creek TCRA activities to be conducted in 2011 and 2012, all waste, including excavated sediment and soil, will be transported to one of two off-site licensed disposal facilities. Additional disposal facilities also may be identified for use during the 2013 and 2014 construction seasons if necessary. The Traffic Control Plan will be amended if additional disposal facilities are to be used.



Sediments and soils with <50 mg/kg PCB contamination from all removal areas and other non-impacted waste materials will be transported to one of the following licensed non-hazardous waste disposal facilities:

**C&C Landfill (an Allied Waste Services facility)** 

14800 P Drive North Marshall, MI 49068

Phone: 269.781.9742

**Ottawa County Farms Landfill** 

15550 68th Avenue

Coopersville, Michigan 49404

Phone: 616.837.8195

Sediment and soil materials generated during the project with >50 mg/kg PCB contamination will need to be handled under TSCA. When TSCA-regulated materials are encountered, that material will be transported to the following TSCA waste disposal facility:

Wayne Disposal (an Environmental Quality Company facility)

49250 North 1-94Service Drive

Belleville, MI48111 Phone: 800.592.5489

EQ will provide street sweeping services as needed, should tracking of mud and dirt onto public roadways occur.



#### 4. DIRT AND DUST CONTROL

In addition to the safety concerns that additional traffic flow into the community causes, site-related traffic has the potential to create fugitive dust and track dirt onto public roadways. Tracking mud onto public roadways has the potential to cause public vehicles to get dirty and impair a driver's vision if the windshield is impacted. In addition as the dirt dries out on the roadways, it turns into dust that (when airborne) is an inhalation nuisance, impairs vision, and could be left on adjacent structures. Many of the site controls previously mentioned will specifically address these issues, but are reiterated below and included with other practices that will be administered.

## 4.1 Dirt Tracking Control

Dirt tracking controls include:

- Temporary haul roads on site will be constructed with a top surface of gravel that promotes
  tires to dislodge mud from their treads as they travel the road. Roadbeds will be elevated
  above the existing land surface to keep vehicles from traversing through the mud whenever
  possible. In addition, geotextiles will be provided to keep site vehicles and equipment up and
  out of the mud as much as possible.
- Vehicles accessing the site where gravel road surfaces are not present will have their tires brushed off as needed to keep from tracking dirt onto public road surfaces.
- Off-site disposal vehicles will have their tires pressure washed at a decontamination station within the staging area subsequent to loading and prior to departing onto public roadways.

## **4.2** Fugitive Dust Control

Fugitive dust control includes:

A dust suppression truck will be provided to water site roads on an as-needed basis to keep
dust generated from the site road traffic from migrating off site. An air monitoring program
will be implemented to ensure the effectiveness of dust control. Solidification material and
stockpiles of excavated sediment will be covered with tarps and/or plastic sheeting when
there is the potential for these areas to contribute to dusty conditions.



#### 5. PUBLIC ROADWAY PROTECTION

In addition to the other site controls described, the structural integrity of the public roadways will be protected to the greatest extent possible. To accomplish this, EQ will document pre-existing conditions, monitor conditions during the project execution, and document post-project conditions. If work practices appear harmful to the public roadways, they will be reviewed and modified as needed to protect the roadways.

- EQ will survey the pre-existing condition of each haul route to and from designated staging
  areas. This will be done using a video camera equipped with a date stamp. The videotape
  will be reviewed, and any pre-existing damage will be documented on a copy of the haul
  route maps from this plan. Copies of the tape will be provided to EPA and the City of
  Kalamazoo.
- A bi-monthly inspection will be performed to monitor conditions during the project. Changes in work practices, maintenance, and/or repairs will be evaluated by EQ, EPA, and the City of Kalamazoo based on inspection results.
- A post-project survey tape will be made to document road conditions after project completion. Copies of the tape will be provided to EPA and the City of Kalamazoo.
- Engineering controls such as applying plywood to road surfaces when offloading tracked
  equipment onto roadways or moving tracked equipment across roadways will be utilized to
  the fullest extent possible.
- Before equipment is shipped off site or moves over roadways to other locations on site, it
  will be cleaned with a high-pressure washer. If necessary, plastic sheeting can be laid over
  roadways as an extra precautionary measure when equipment has to cross over roadways to
  protect from any dirt becoming dislodged and contacting the road surface.

#### 6. EXCAVATION AREAS TRAFFIC FLOW PLAN

The traffic plan for the individual excavation areas is presented below in the order work is expected to proceed.

#### 6.1 SA7

SA7 is a flood plain area that will be accessed by road from Reed Avenue. EQ anticipates shipping contaminated soil directly from the flood plain to respective landfills for Subtitle D and TSCA waste sediment disposal. First, EQ will excavate SA7 TSCA contaminated sediments from this removal area and then excavate subtitle D contaminated sediment from the north end of the excavation to the south end of the excavation area. To accomplish load-out for disposal, EQ will construct an access road/pathway suitable for material transfer with crawler carrier trucks (tracked dump trucks). The crawler carrier trucks will bring contaminated soil to the southern edge of the forested wetland and dump material on a pad for transfer to over-the-road trucks for direct shipment to respective landfills.

EQ intends to ship waste in quad-axle semi-dump trailers. Trailers will be backed onto a vacant lot used for access to SA7. Trucks will be backed up to the load-out pad where an excavator will load contaminated soil into the dump trailers. Once loaded, truck trailers will be brushed free of any soil accumulated on the outside of the trailer from the loading process. Truck trailer tarps will be placed over the load and the trucks will pull forward onto a truck wash station for tire cleaning. Manifest shipping documents will be completed, and the trucks will be sent to the respective landfill following the route prescribed below to get onto the highway (Figure 3, SA 7 Waste Transport Route(s) to Disposal Facilities):

- 1. Trucks will turn right (west) onto Reed Avenue.
- 2. Trucks will travel to the intersection of Reed Avenue and Burdick Street.
- 3. Trucks will turn right onto Burdick Street (north).
- 4. Trucks will proceed down Burdick Street to the intersection with E. Crosstown Parkway.
- 5. Trucks will turn right onto E. Crosstown Parkway (northeast).
- 6. Trucks will travel eastbound on E. Crosstown Parkway to King Highway (Bus. 94).
- 7. Trucks traveling to the Environmental Quality Company in Bellville Michigan (TSCA Soil) or to the C&C Landfill in Marshall Michigan (Subtitle D Soil) will continue on King Highway (Business 94) southeast to I-94 eastbound.
- 8. Trucks proceeding to Ottawa County Farms in Coopersville Michigan (Subtitle D Soil) will continue on King Highway (Business 94) southeast to Sprinkle Road, turn south onto Sprinkle Road and then onto I-94 westbound.

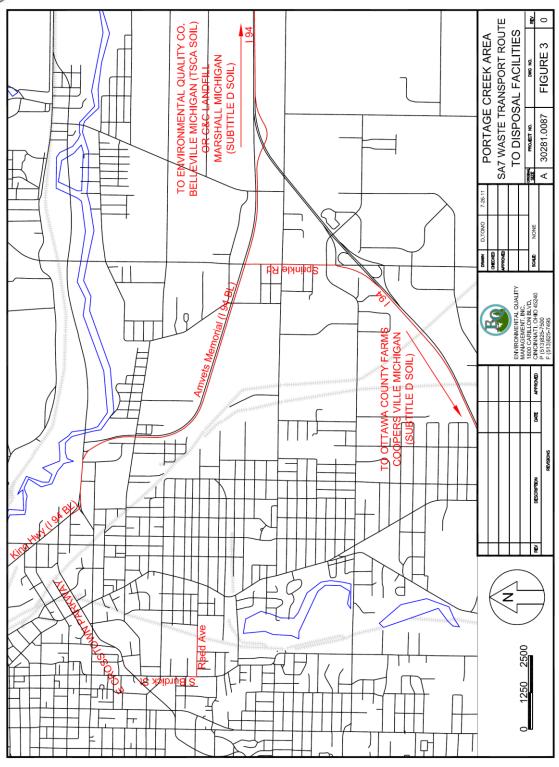


Figure 3. SA 7 Waste Transport Route(s) to Disposal Facilities



## 6.2 SA6

SA6 is the creek section between the Stockbridge Avenue bridge and the Lake Street Avenue bridge adjacent to the Kalamazoo Public Services facility located just west of the creek. This area will be accessed from a construction entrance and access road constructed adjacent to the west side of the creek on Kalamazoo Public Services Property from Stockbridge Avenue. All site-related traffic will enter and exit from this temporary access road. EQ anticipates shipping contaminated soil from the SA6 Area to the TCRA support area staging pad after adding sufficient solidification media to the sediment to allow transfer trucks to haul over city roads without releasing water and/or wet sediment from the dump box. Excavation equipment will be used to load trucks at the work areas adjacent to the creek.

EQ will use tandem/tri-axle dump trucks equipped with tarp load covers to transfer material to the TCRA support area staging pad. SA6 trucks will be turned around at a designated area and redirected off the site down the same temporary access road used to enter the site. Before departing, SA6 trucks will go through a tire wash station located in the green belt south of the public services perimeter fence in the southeast corner of the property. The transfer trucks will proceed to the TCRA support area staging pad by following the route described below (Figure 4, Waste Transport Route(s) to TCRA Area F):

- 1. Trucks will turn right (west) onto Stockbridge Avenue.
- 2. Trucks will travel to the intersection of Stockbridge Avenue and Burdick Street.
- 3. Trucks will turn right onto Burdick Street (north).
- 4. Trucks will proceed down Burdick Street to the intersection with E. Crosstown Parkway.
- 5. Trucks will turn right onto E. Crosstown Parkway (northeast).
- 6. Trucks will travel eastbound on E. Crosstown Parkway to John Street.
- 7. Trucks will turn right onto John Street and turn left into the TCRA support area.
- 8. Trucks will follow the site access road to dump the sediment onto the staging pad.
- 9. Trucks will proceed to the tire wash station located on the northwest corner of the staging pad.
- 10. Trucks will return to the SA6 area along the same route, but travel in the reverse direction.

EQ anticipates shipping sediment waste from SA6, SA5-D, Axtell Creek, and SA5-C from the John St. TCRA support area to their respective TSCA/Subtitle D landfills. Sediment waste shipped from the John St. TCRA support area will follow the route described below (Figure 5, TCRA Waste Transport Route(s) to Disposal Facilities):

- 1. Trucks will exit the property subsequent to loading, tarping, manifest completion, and completing tire wash by turning right onto John Street.
- 2. Trucks will proceed to the intersection of John Street and E. Crosstown Parkway, and turn right onto E. Crosstown Parkway.



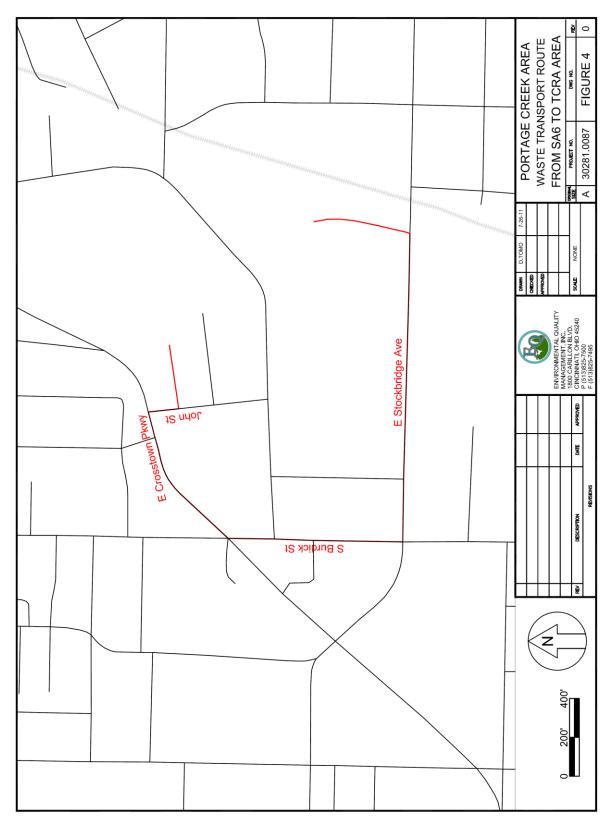


Figure 4. Waste Transport Route from SA 6 to TCRA Area



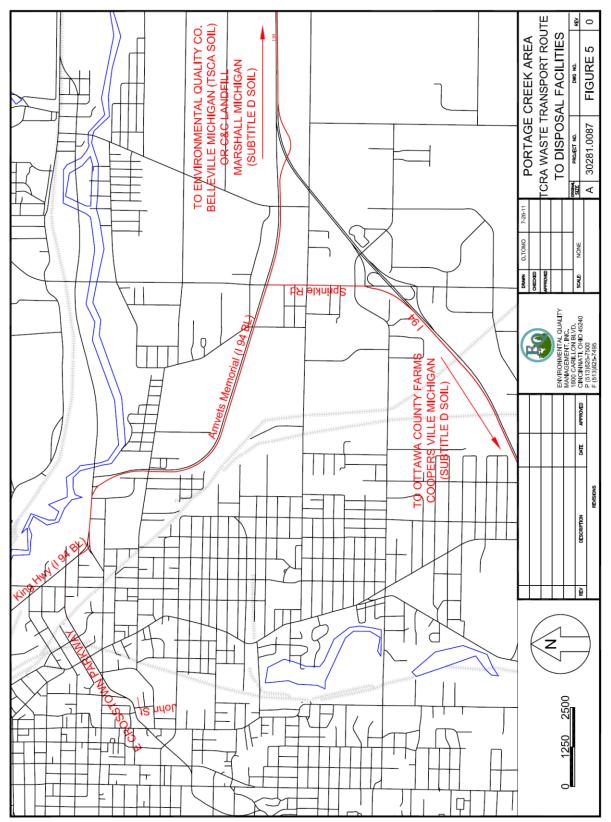


Figure 5. TCRA Waste Transport Route to Disposal Facilities



3. Trucks will travel eastbound on E. Crosstown Parkway to King Highway (Bus. 94). Trucks traveling to the Environmental Quality Company in Bellville Michigan (TSCA Soil) or to the C&C Landfill in Marshall Michigan (Subtitle D Soil) will continue on King Highway (Business 94) southeast to I-94 eastbound.

4.

- 5. Trucks proceeding to Ottawa County Farms in Coopersville Michigan (Subtitle D Soil) will continue on King Highway (Business 94) southeast to Sprinkle Road and turn south onto Sprinkle Road and then onto I-94 westbound.
- 6. Trucks returning to the site for additional loads will follow the exit route in the reverse direction.

## 6.3 SA5

SA5 consists of the following creek channel segments:

- SA5-D extends from the Lake Street bridge north to E. Crosstown Parkway.
- Axetell Creek extends east from E. Crosstown Parkway to the confluence with Portage Creek.
- SA5-C extends north from E. Crosstown Parkway to East Vine Street.
- SA5-B extends north from East Vine Street to East Dutton Avenue. EQ may only remove a small area of TSCA-contaminated sediment just north of the East Vine Street Bridge. The remainder of this slope area will not be addressed under this TCRA project.
- SA5-A extends northeast from East Dutton Street Bridge to the Walnut Street Bridge.

#### SA5 and Axtell Creek

EQ will construct an access road along the east side of Portage Creek to facilitate contaminated sediment removal and transfer SA5-D sediment to the TCRA support area staging pad. EQ will also construct an access road along the south side of Axtell Creek for the same purpose. EQ will install a temporary bridge across SA5-D upstream from the confluence with Axtell Creek and Portage Creek to facilitate transfer of removed sediments to the staging pad. Sediments will be transported in off-road dump trucks to the east side of the pad and dumped for additional solidification/dewatering and eventual load-out for disposal. Sediments will be shipped from the staging pad as previously described.

#### SA5-C

An addendum will be prepared at a later date to address the traffic flow plan for this area once access is obtained and design documents are completed for this work area.



## SA5-A

An addendum will be prepared at a later date to address the traffic flow plan for this area once design documents are completed this work area.

## **6.4 SA3** and **SA1**

An addendum will be prepared at a later date to address the traffic flow plan for these areas once access is obtained and design documents are completed for this work area.



#### 7. HEALTH AND SAFETY PROCEDURES

Health and safety procedures are presented in the *Health and Safety Plan Portage Creek Area Site* (HASP) and its associated addenda, and all project personnel are required to be familiar with its contents. The objective of the HASP and addenda is to provide a mechanism for establishing safe work practices while conducting the Portage Creek Area TCRA activities. The safety organization, procedures, and protective equipment have been established based on an analysis of potential physical, chemical, and biological hazards. Specific hazard control methodologies have been evaluated and selected to minimize the potential for injury, illness, or other hazardous incidents listed in Section 3.0 of the HASP. Section 5.0 presents personal protective equipment (PPE) requirements. Section 8.0 of the HASP discusses project hazards and controls. A copy of the HASP and its associated addenda will be available at the EQ Project Office during the Portage Creek Area TCRA activities.

## 8. ROLES AND RESPONSIBILITIES

The roles of EQ personnel and transporters are outlined in Section 8.1, and Table 1 (below) includes a summary of key project personnel and contacts.

TABLE 1. KEY PERSONNEL

	T	
Role	Name	Address/Contact Information
EQ Personnel		
Project/Response Manager	Eric Bowman	Phone: 513-265-8875
Trojecti Response Manager		Email: <u>ebowman@eqm.com</u>
Deputy Response Manager	Jeff Rhinefield	Phone: 513-309-4708
Deputy Response Wanager		Email: <u>jrhinefield@eqm.com</u>
Field Administrative Assistant	Khristine Beck	Phone: 513-310-9189
1 Tota / Kammistrati ve / Kissistant		Email: kbeck@eqm.com
General Foreman	Gary Butcher	Phone:513-532-2120
General i Oreman	Gary Butcher	Email: gbutcher@eqm.com
<b>US EPA On-Scene Coordinate</b>	ors	
Lead On-Scene Coordinator	Sam Borries	Phone:312-353-8360
Lead Oil-Scene Cooldinator		Email: Borries.Samuel@epa.gov
Deputy On-Scene Coordinator	Craig Thomas	Phone: 312-802-9637
Deputy On-Scene Coordinator	Claig Thomas	Email: Thomas.Craig@epa.gov
MDEQ		
City of Kalamazoo		
Traffic Engineer	James Hoekstra	Phone: 269-337-8612
Traine Engineer		Email: hoekstraj@kalamazoocity.org

## **8.1** EQ Personnel

## 8.1.1 Response Manager/Deputy Response Manager

The Response Manager/Deputy Response Manager (RM) is responsible for verifying that Portage Creek Area TCRA project activities are completed in accordance with the requirements of this TCP. The RM is responsible for confirming that the proper equipment, materials, and qualified personnel are present to fully implement the TCP requirements. It is also the responsibility of the RM to perform the following duties:



- Consult with the City of Kalamazoo Traffic Engineer on traffic-related issues.
- Verify that all incidents and near-misses are thoroughly investigated and reported to EQ within 24 hours.
- Approve, in writing, addenda or modifications to this TCP.
- Suspend work or modify work practices, as necessary, for personal safety, protection of property, and regulatory compliance.
- RM is responsible for implementing this TCP and communicating requirements to project personnel.
- RM is also responsible for discussing issues associated with the established work plan or procedures and impacts related to conditions within the project area so that those changes may be addressed as appropriate in this TCP.
- Maintain documentation for all waste material hauled off site.
- Post the telephone numbers of local public representatives in the project trailer and notify those officials (as appropriate) of the nature of the traffic-related project operations.
- Conduct traffic orientation training and meetings.
- Review transportation activities with respect to compliance with this TCP.
- Maintain required TCP documents and records.

## 8.2 Transporters

Transportation of excavated sediment and soil will be conducted by (TBD). All truck drivers transporting sediment and soil off site will be fully licensed and insured and in compliance with USDOT requirements.

## 9. EMERGENCY CONTACT INFORMATION

Table 2 presents specific emergency contact information.

TABLE 2. EMERGENCY CONTACTS

TABLE 2. EVIERGENCI CONTACTS				
Agency	Telephone No.			
Emergency Services				
Fire	911 (if possible, indicate nearest highway			
	marker or exit name or number)			
Police	911 (if possible, indicate nearest highway			
	marker or exit name or number)			
Ambulance	911 (if possible, indicate nearest highway			
	marker or exit name or number)			
Hazardous Waste Disposal Facility				
Wayne Disposal (EQ 24-hour Dispatch)	Phone: 800.839.3975			
Regulatory Contacts				
Regional Duty Officer, Emergency Response	Phone: 312.353.2318			
Branch, Region 5				
Pollution Emergency Alerting System (PEAS)	Phone: 800.292.4706 (within Michigan)			
	Phone: 517.373.7660 (outside of			
	Michigan)			
USEPA OSC: Sam Borries	312.802.5336			
USEPA OSC: Craig Thomas	312.802.9637			
National Response Center	800.424.8802			
EQ Staff				
RM-Eric Bowman	Phone: 513-265-8875			
DRM-Jeff Rhinefield	Phone: 513-309-4708			
FAA-Khristine Beck	Phone: 513-310-9189			
GF- Gary Butcher	Phone:513-532-2120			

#### 10. CONTINGENCY PLAN

## 10.1 Primary and Alternate Routes

If the primary transport route to one of the disposal facilities is unavailable or becomes excessively congested (i.e., due to outside construction or temporary road/lane closures), an alternative route will be used. EQ will notify the USEPA, MDEQ, and the City of Kalamazoo representatives if an alternate route is used or if truck traffic is rerouted. In addition, due to unforeseen circumstances such as extended road closures or road construction activities, access routes may need to be modified during construction. If at any time the access routes require modifications, EQ will discuss the modifications with the USEPA, MDEQ, and the City of Kalamazoo prior to implementation. Associated modifications to this TCP will be made as necessary in these situations.

Significant hazards during transportation include traveling on congested surface streets, travel through populated areas, sharp turning radii at some of the surface street intersections, and weather-related impacts. To minimize these hazards, all efforts will be made to conduct transportation activities during regular business hours, transporters will be aware of all local traffic patterns, and (if necessary and where possible) temporary traffic lights or other traffic-control measures will be placed in strategic locations to improve the flow of traffic and assist transporters in making sharp turns.

## 10.2 Contaminated Soil/Sediment Spills

If a spill of impacted material occurs, the steps to be taken include:

- The RM will be notified, who will contact the OSCs (identified in Table 2).
- Workers responding to a spill shall be trained Hazardous Materials Site Workers (HAZWOPER) wearing appropriate PPE.
- Document the location of the spill in the Site Log Book.
- Determine whether or not the contaminated material is entering a waterway (i.e., river, stream, storm sewer inlet, etc.). If it is, block the flow of material.
- Remove the contaminated material as soon as possible and containerize it. Depending on the size of the spill, brooms and shovels or larger equipment such as excavators and loaders may be required. If possible, the material will be loaded into the truck from which the spill originated.
- If the spill cannot be removed immediately, mark the area where the spill occurred with chalk, degradable spray paint, or caution tape. Secure the spill site from entry by unauthorized personnel by roping off the area and posting warning signs.



- If the spill occurred on an impervious surface, cover the spill area with polyethylene or plastic tarpaulin or moisten with a fine mist to prevent the material from becoming airborne unless it can be removed immediately. Remove bulk material and place it into a container. Sweep the area with a broom and place collected material into a container.
- If possible, dispose of the spilled material at the appropriate off-site disposal facility with the material being transported for disposal.

## 10.3 Oil (Fuel, Diesel Fuel, and/or Hydraulic Fluid) Spills

If a spill of oil exceeding 10 gallons occurs, the following steps will be taken:

- The RM will be notified, who will then contact the OSCs (identified in Table 2).
- Workers responding to a spill shall be HAZWOPER trained and wear appropriate PPE.
- If determined necessary by the RM and OSC, they will notify the regulatory agencies listed in Table 2.
- Document the location of the spill in the Site Log Book.
- Perform a visual assessment of the situation and determine preliminary response actions, and
  alert facility personnel in the area of the spill or release. The RM will then issue evacuation
  orders, if evacuation is warranted. Attempts to control or stop the release will be made by the
  HAZWOPER-trained responders, who will also attempt to minimize the spread of
  contamination onto the ground surface or water.
- Determine whether or not the fuel is entering a waterway (i.e., river, stream, storm sewer inlet, etc.). If it is, block the flow of free product.
- After the spill or release has been controlled and contained, the spill will be cleaned up. All
  spilled materials and response equipment will be properly containerized and disposed of
  following resolution of the spill or release incident.
- If the spill cannot be removed immediately, mark the area where the spill occurred with degradable spray paint and caution tape. Secure the spill site from entry by unauthorized personnel by roping off the area and posting warning signs.
- If the spill occurred on a pervious surface, remove soil until visual observations and photoionization detector (PID) readings indicate there is no contamination. Contaminated soil should be containerized and disposed of at an approved disposal facility in accordance with all applicable state and federal regulations.
- If the spill occurred on an impervious surface, surround the spill with a dike using absorbent material to prevent further spreading. Use absorbent material to remove visible traces of fuel. Place contaminated absorbent material in a sealable, leak-proof container and label the container by identifying the fuel for disposal.
- Dispose of the spilled material in properly labeled containers for off-site transport to an approved disposal facility in accordance with all applicable state and federal regulations.
- Sampling and analyses of soil samples may be necessary.